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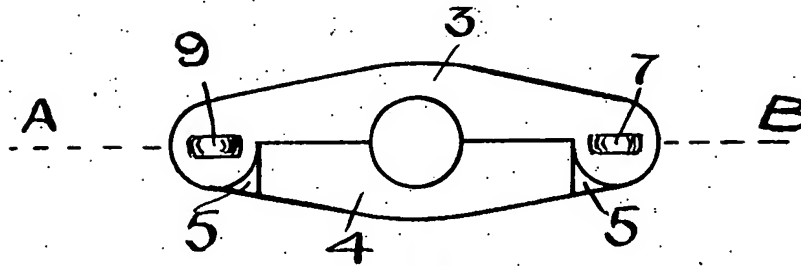


Fig 1

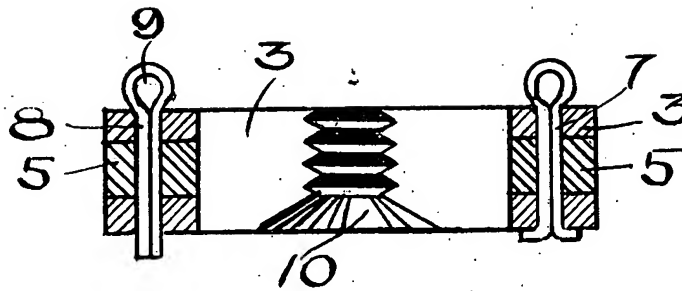


Fig 2

This Drawing is a full-size reproduction of the Original.

## PATENT SPECIFICATION

Application Date: Jan. 30, 1939. No. 3062/39.

524,399

Complete Specification Left: Feb. 28, 1940.

Complete Specification Accepted: Aug. 6, 1940.



## PROVISIONAL SPECIFICATION

## Improvements connected with Screwed Nuts

We, ARTHUR PEACE LIMITED, of 7b, Factory Centre, Kings Norton, Birmingham 30, a British Company, ARTHUR PEACE and CYRIL LORENZO FIELD, both of the Company's address and both British Subjects, do hereby declare the nature of this invention to be as follows:—

This invention comprises improvements connected with screwed nuts and has for its object to provide such a nut which can be quickly detached from the bolt or pin onto which it is screwed.

The present invention is characterized by a screwed nut which is divided into a plurality of parts at right angles to the axis of the thread and means for holding said parts together, said means being readily detachable from the nut to release said nut from the pin or bolt onto which it is screwed.

This invention is particularly adapted for use with ammunition boxes where it is desired to provide a secure fastening means which can be quickly released, although it may equally well be applied to other uses where such a screwed nut would be advantageous.

In carrying the present invention into practice, it will be described as applied to a fly-nut, said nut is formed in two parts each part having one half of the complete thread, the abutting edges of the two parts of the thread being preferably chamfered off.

One half of the nut is formed at each end with a gap into which is adapted to fit a lug formed on each end of the other half of the nut. A hole is formed in each end of the nut, said lugs having a hole which registers with the holes formed in the

other part. A pivot pin may be placed in the one set of holes to pivot the two parts of the nut together. Positioned in the hole at the opposite end of the nut is a pin which is preferable provided with an eye to which may be attached a cord or chain which will facilitate the removal of the pin.

The underside of the nut is preferably chamfered around the hole which is adapted to register with a truncated cone shaped washer or other similarly shaped part, so that when said nut is screwed down a shearing strain will be exerted on the pin securing the two parts together, so that when said pin is withdrawn the two parts of the nut will fly open, thus allowing the nut to be quickly removed from the bolt or pin on which it is positioned.

If desired, instead of the one end of the nut being pivoted, two removable pins may be used for securing the two parts of the nut together.

In a modification of this invention, instead of using a pin for securing the two parts of the nut together, a hinged embracing member may be secured to the one part of the nut which is adapted to engage the other part of the nut to secure the two parts together, whilst said embracing member can be readily disengaged from the one part of the nut to permit of the nut being quickly released from the bolt or pin onto which it is positioned.

Dated this 28th day of January, 1939.

NORMAN S. BARLOW,

Chartered Patent Agent,

16, Bennetts Hill, Birmingham 2,  
Agent for Applicants.

## COMPLETE SPECIFICATION

## Improvements connected with Screwed Nuts

We, ARTHUR PEACE LIMITED, of 7b, Factory Centre, Kings Norton, Birmingham 30, a British Company, ARTHUR PEACE and CYRIL LORENZO FIELD, both of the Company's address and both British Subjects, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the

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following statement:—

This invention comprises improvements connected with screwed nuts of the type which are divided into a plurality of parts in an axial plane and has for its object to provide such a nut which can be quickly detached from the bolt or pin onto which it is screwed.

The present invention is characterized

by the provision of a chamfered part at one end of the screwed thread of the nut which is adapted to abut against a truncated cone shaped washer or the like, so as to exert a shearing strain on the means for securing the parts of the nut together, to facilitate the opening of the nut when said securing means are withdrawn.

This invention is particularly adapted for use with ammunition boxes where it is desired to provide a secure fastening means which can be quickly released, although it may equally well be applied to other uses where such screwed nut would be advantageous.

Referring to the drawings:—

Figure 1 is a plan of a screwed fly nut according to this invention; whilst,

Figure 2 is a section at A—B in Figure 1.

In carrying the present invention into practice as shown upon the accompanying drawings, it will be described as applied to a fly-nut, said nut is formed in two parts 3, 4 each part having one half of the complete thread formed therein, the abutting edges of the two parts of the thread being preferably chamfered off.

The one half 3 of the nut is formed at each end with a gap into which is adapted to fit the lugs 5 formed on each end of the other half of the nut 4. A hole is formed in each end of the nut part 3. The lugs 5 have holes formed therein which register with the holes formed in the part 3 of the nut. A pivot pin 7 which may be a split pin with the ends opened to secure same in position is placed in one set of holes to pivot the two parts 3, 4 of the nut together. Positioned in the holes at the opposite end of the nut is a split pin 8 which is provided with an eye 9 to which may be attached a cord or chain which will facilitate the removal of the pin 8 from the nut.

The underside of the nut is chamfered at 10 around the screwed hole which is adapted to register with a truncated cone shaped washer or other similarly shaped part, so that when said nut is screwed

down a shearing strain will be exerted on the pins 7, 8 securing the two parts of the nut 3, 4 together, so that when the pin 8 is withdrawn the two parts 3, 4 of the nut will fly open, thus allowing the nut to be quickly removed from the bolt or pin on which it is positioned.

If desired, instead of the one end of the nut being pivoted, two removable pins may be used for securing the two parts 3, 4 of the nut together.

In a modification of this invention, instead of using a pin for securing the two parts of the nut together, a hinged embracing member may be secured to the one part of the nut which is adapted to engage the other part of the nut to secure the two parts together, whilst said embracing member can be readily disengaged from the one part of the nut to permit of the nut being quickly released from the bolt or pin onto which it is positioned.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. Improvements connected with screwed nuts of the type specified, characterised by the provision of a chamfered part at the one end of the screwed thread of the nut which is adapted to abut against a truncated cone shaped washer or the like, so as to exert a shearing strain on the means for securing the parts of the nut together, to facilitate the opening of the nut when said securing means are withdrawn.

2. A screwed nut according to claim 1, for securing parts of ammunition boxes together.

3. The improved screwed nut, substantially as described and shown upon the accompanying drawing.

Dated this 27th day of February, 1940.

NORMAN S. BARLOW,

Chartered Patent Agent,

16, Bennetts' Hill, Birmingham 2,

Agent for Applicants.